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To: **PCT** United States Patent and Trademark **NOTIFICATION OF ELECTION** Office (PCT Rule 61.2) (Box PCT) Crystal Plaza 2 Washington, DC 20231 **ETATS-UNIS D'AMERIQUE** Date of mailing (day/month/year) in its capacity as elected Office 01 July 1998 (01.07.98) Applicant's or agent's file reference International application No. T8463488WO PCT/CA97/00857 International filing date (day/month/year) Priority date (day/month/year) 13 November 1996 (13.11.96) 13 November 1997 (13.11.97) **Applicant** MANNER, D., Lee 1. The designated Office is hereby notified of its election made: in the demand filed with the International Preliminary Examining Authority on: 12 June 1998 (12.06.98) in a notice effecting later election filed with the International Bureau on: 2. The election was was not made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

J.M. Vivet

Telephone No.: (41-22) 338.83.38

Facsimile No.: (41-22) 740.14.35 Form PCT/IB/331 (July 1992)



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference T8463488WO	Applicants	01.00	ente filo reference			·		
PCT/CA97/00857 13/11/1997 13/11/1996	l ''	•		FOR FURTHER ACTION				
International Patent Classification (IPC) or national classification and IPC C10L11/02 Applicant MANNER, D., Lee 1. This international preliminary examination report has been prepared by this International Preliminary Examining Author and is transmitted to the applicant according to Article 36. 2. This REPORT consists of a total of 4 sheets, including this cover sheet. This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total of sheets. 3. This report contains indications relating to the following items:	Internation	al appl	ication No.	International filing date (day/mo	onth/year)	Priority date (day/month/year)		
Applicant MANNER, D., Lee 1. This international preliminary examination report has been prepared by this International Preliminary Examining Author and is transmitted to the applicant according to Article 36. 2. This REPORT consists of a total of 4 sheets, including this cover sheet. This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total of sheets. 3. This report contains indications relating to the following items: 1	PCT/CA	97/00	857	13/11/1997		13/11/1996		
MANNER, D., Lee 1. This international preliminary examination report has been prepared by this International Preliminary Examining Authorand is transmitted to the applicant according to Article 36. 2. This REPORT consists of a total of 4 sheets, including this cover sheet. This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total of sheets. 3. This report contains indications relating to the following items: Basis of the report Priority Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Value Lack of unity of invention Value Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations suporting such statement Value Certain decuments cited Value Certain defects in the international application Value Certain observations on the international application Date of completion of this report 10.12, 199 Name and mailing address of the international Authorized officer Authorized officer Authorized officer Name and mailing address of the international Authorized officer Authorized officer Authorized officer			ent Classification (IPC) or na	ational classification and IPC				
1. This international preliminary examination report has been prepared by this International Preliminary Examining Authorand is transmitted to the applicant according to Article 36. 2. This REPORT consists of a total of 4 sheets, including this cover sheet. This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total of sheets. 3. This report contains indications relating to the following items: 1. Basis of the report 11. Priority 11. Non-establishment of opinion with regard to novelty, inventive step and industrial applicability 12. Lack of unity of invention 23. Value and explanations suporting such statement 24. Certain documents cited 25. Quith certain defects in the international application 26. Quith certain observations on the international application 27. Date of submission of the demand 28. Quithorized officer 29. Name and mailing address of the international	Applicant					·		
and is transmitted to the applicant according to Article 36. 2. This REPORT consists of a total of 4 sheets, including this cover sheet. This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total of sheets. 3. This report contains indications relating to the following items:	MANNE	R, D.,	Lee					
This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total of sheets. 3. This report contains indications relating to the following items:					red by this Inf	ernational Preliminary Examining Authority		
been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total of sheets. 3. This report contains indications relating to the following items:	2. This	REPC	ORT consists of a total of	4 sheets, including this cove	r sheet.			
Basis of the report	. (seen a	mended and are the bas rule 70.16 and Section 6	sis for this report and/or sheet 07 of the Administrative Instru	s containing r	ectifications made before this Authority		
II		·		ating to the following items:				
III □ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability IV □ Lack of unity of invention V □ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations suporting such statement VI □ Certain documents cited VII □ Certain defects in the international application VIII □ Certain observations on the international application Date of submission of the demand 12/06/1998 Name and mailing address of the international Authorized officer	· ·	_	·					
IV			•	opinion with regard to novelty,	inventive ster	and industrial applicability		
citations and explanations suporting such statement VI	IV				•	,		
VII	V					ventive step or industrial applicability;		
VIII ☐ Certain observations on the international application Date of submission of the demand Date of completion of this report 12/06/1998 Name and mailing address of the international Authorized officer	VI							
Date of submission of the demand 12/06/1998 Date of completion of this report 12/06/1998 Authorized officer								
12/06/1998 Name and mailing address of the international Authorized officer	VIII		Certain observations o	n the international application				
Name and mailing address of the international Authorized officer	Date of su	bmissi	on of the demand	Date	of completion of	of this report		
	12/06/19	12/06/1998				1 G. @2, 99		
European Patent Office D-80298 Munich Tel (4.0.9) 2300 0. Tr. 53355 communic	preliminary	exam Euro	ining authority: opean Patent Office			Status Company		

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/CA97/00857

I. Basis of th report

۱.	1. This report has been drawn on the basis of (substitute sheets which have been furnished to the receiving Office response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed the report since they do not contain amendments.):								
	Des	scription, pages:							
	1-2	6	as originally filed						
	Cla	ims, No.:							
	1-2	6	as originally filed						
	Dra	wings, sheets:							
	1/2	-2/2	as originally filed						
		·							
2.	The	amendments have	e resulted in the cancellation of:						
		the description,	pages:						
		the claims,	Nos.:						
		the drawings,	sheets:						
3.			een established as if (some of) the amendments had not been made, since they have been beyond the disclosure as filed (Rule 70.2(c)):						
١.	Add	litional observation	s, if necessary:						
v	. Lac	ck of unity of inve	ntion						
		-	tation to restrict or pay additional fees the applicant has:						
•			·						
		restricted the clair	ns.						
		paid additional fee	es.						
		paid additional fee	es under protest, To the second secon						
		neither restricted	nor paid additional fees.						

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/CA97/00857

2.	×	This Authority found that the requirement of unity of invention is not complied and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees.
3.	This	Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is
		complied with.
	×	not complied with for the following reasons:
		see separate sheet
4.		sequently, the following parts of the international application were the subject of international preliminary mination in establishing this report:
	×	all parts.
		the parts relating to claims Nos.

EXAMINATION REPORT - SEPARATE SHEET

1. Reference is made to the following documents:

D1 = GB-A-131472

D2 = GB-A-609069

D3 = FR-A-2 601 381

D4 = US-A-2 107 054

D5 = FR-A-1555995

D6 = FR-A- 970 708

D7 = US-A-2 170 326

D8 = US-A-1 496 314.

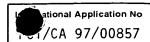
- The subject-matter of present claim 1 is merely a solid fuel impregnated into a 2. porous carrier. The ignition, combustion and vaporisation properties may not be employed to technically define the fuel (Article 6 and Rule 6.3(a) PCT), since they represent behavioural features. The said subject-matter is known from D1 (claim 2), D2 (page 1, lines 16-20), D3 (Abstract), D4 (Claim 1), D5 (claims and Fig. 1), D6 (in entirety), D7 (claim) and D8 (in entirety).
- The subject-matter common to independent claims 1 and 23 is the fuel recited in 3. present claim 1. Since this common subject-matter is known - see paragraph 2, above), there exists no unifying concept between the fuel of claim 1 and the stove of claim 13. The requirement of Rule 13.1 PCT is thus not met.





(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference T8463488W0		of Transmittal of International Search Report 220) as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/CA 97/00857	13/11/1997	13/11/1996
Applicant		
MANNER, D., Lee		· · · · · · · · · · · · · · · · · · ·
	s been prepared by this International Searching Authing transmitted to the International Bureau.	hority and is transmitted to the applicant
This International Search Report con It is also accompanied by a	nsists of a total of3 sheets. a copy of each prior art document cited in this report	t
Certain claims were found	d unsearchable(see Box I).	
2. Unity of invention is lacki	ing(see Box II).	
	on contains disclosure of a nucleotide and/or aming arried out on the basis of the sequence listing	
	filed with the international application.	
	furnished by the applicant separately from the inter-	rnational application,
	but not accompanied by a statement to the matter going beyond the disclosure in the	
	Transcribed by this Authority	
4. With regard to the title, χ	the text is approved as submitted by the applicant	L
	the text has been established by this Authority to re	
5. With regard to the abstract,		
<u>X</u>	the text is approved as submitted by the applicant	
	the text has been established, according to Rule 3 Box III. The applicant may, within one month from Search Report, submit comments to this Authority	the date of mailing of this International
6. The figure of the drawings to be	nublished with the abstract is:	
Figure No. 1a	as suggested by the applicant.	None of the figures.
	because the applicant failed to suggest a figure.	[]ee oee
. 🗎	because this figure better characterizes the inventi	tion.



A. CLASSIFICATION OF SUBJECT MATTER
IPC 6 C10L11/02 C10L11/04, C10L5/40

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols).

IPC 6 C10L A01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUM	ENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Х	GB 131 472 A (WOODFINE) 18 September 1919	1-3,11, 12,17,18
Y Y	see the whole document	21 22
X	GB 609 069 A (BARLOW) 21 October 1948 see the whole document	1,4-18
X	FR 2 601 381 A (CHAKER ELISABETH) 15 January 1988 see the whole document	1,4-19
X ·	US 2 107 054 A (HAYMOND) 1 February 1938 see claims; figures	1,4-18
	-/	· ·

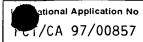
X Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
 Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publicationdate of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed 	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of theinternational search	Date of mailing of the international search report
	09/04/1998
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Meertens, J

1



	<u> </u>	101/CA 97/0085	07
C.(Continua	ation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication,where appropriate, of the relevant passages	Relevar	nt to claim No.
X	FR 1 555 995 A (EKOPERL) 31 January 1969	1	1-3, 11-13, 17-19,22
	see claims; figures		, , ,
X	FR 970 708 A (HEILPERN) 8 January 1951		-13,17, .8,23-26
	see the whole document		, .
X	US 2 170 326 A (HEADLAND) 22 August 1939 see claim; figures	1	,4-10
Х	US 1 496 314 A (IKEDA) 3 June 1924 see claims; figures	. 1	,4-18
Y	DE 30 08 644 A (WACKER CHEMIE GMBH) 10 September 1981 see claims	2	?1
Y	US 3 536 615 A (BUNN CLINTON O) 27 October 1970 see claims	2	22
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tion on patent family members



Patent document cited in search repo		Publication date	Patent family member(s)	Publication date
GB 131472	Α	•	NONE	
GB 609069	Α		NONE	
FR 2601381	Α	15-01-88	NONE	
US 2107054	Α	01-02-38	NONE	
FR 1555995	Α	31-01-69	CH 488873 A NL 6802523 A	15-04-70 23-08-68
FR 970708	Α	08-01-51	NONE	
US 2170326	Α	22-08-39	NONE	
US 1496314	Α	03-06-24	NONE	
DE 3008644	Α	10-09-81	AT 5365 T DK 20681 A EP 0038921 A	15-12-83 07-09-81 04-11-81
US 3536615	Α	27-10-70	CA 951646 A DE 2038797 A FR 2057015 A NL 7011596 A	23-07-74 18-02-71 07-05-71 09-02-71

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WORLD INTELLECTUAL PROPERTY ORGANIZATION International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶: C10L 11/02, 11/04, 5/40

(11) International Publication Number:

WO 98/21296

ol 11/02, 11/04, 5/40

(43) International Publication Date:

22 May 1998 (22.05.98)

(21) International Application Number:

PCT/CA97/00857

(22) International Filing Date:

13 November 1997 (13.11.97)

(30) Priority Data:

2,190,233

13 November 1996 (13.11.96) CA

(71)(72) Applicant and Inventor: MANNER, D., Lee [CA/CA]; 221 Margaret Street, North Bay, Ontario P1B 8G4 (CA).

(74) Agents: STRATTON, Robert, P. et al.; Gowling, Strathy & Henderson, Suite 4900, Commerce Court West, Toronto, Ontario M5L 1J3 (CA).

(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).

Published

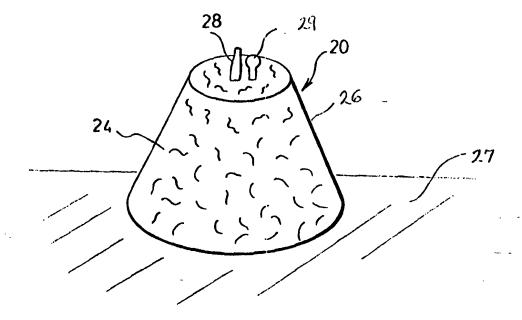
With international search report.

Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

(54) Title: COMBUSTIBLE FUEL SOURCE

(57) Abstract

The combustible fuel source of the invention includes a body comprising a porous carrier and a solid fuel. When combustion is established the fuel is vaporized and combusted on one or more surfaces of the body. In the internal part of the body the solid fuel vaporized and the vaporized fuel moves through the porous carrier to one or more surfaces of the body wherein it is combusted. A portion of the heat resulting from this combustion maintains the vaporization of the solid fuel for continued combustion. A variety of materials can be used as the porous carrier, including combustible materials such as paper fibres, cloth, pulp fibres, powdered coal or charcoal and non-combustible materials such as ground pumice, sand or ceramic materials. A variety of solid fuels can be used, including



paraffin wax, beeswax and other waxes or wax-like materials derived from animal and/or vegetable processing. The body can be shaped into preselected shapes according to an intended use and/or can be placed into stoves or other heating devices as a fuel source.

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AL AM AT AU AZ BA BB BE BF BG BJ BR CF CG CH CI CM CN CU CZ DE DK EE	Albania Amenia Austria Australia Australia Azerbaijan Bosnia and Herzegovina Barbados Belgium Burkina Faso Bulgaria Benin Brazil Belarus Canada Central African Republic Congo Switzerland Côte d'Ivoire Cameroon China Cuba Czech Republic Germany Denmark Estonia	ES FI FR GA GB GE GH GN IE IL IS IT JP KE KG KP KR LC LI LK LR	Spain Finland France Gabon United Kingdom Georgia Ghana Guinea Greece Hungary Ireland Israel Iceland Italy Japan Kenya Kyrgyzstan Democratic People's Republic of Korea Republic of Korea Kazakstan Saint Lucia Liechtenstein Sri Lanka Liberia	LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO ——RU SD ——SE	Lesotho Lithuania Luxembourg Latvia Monaco Republic of Moldova Madagascar The former Yugoslav Republic of Macedonia Mali Mongolia Mauritania Malawi Mexico Niger Netherlands Norway New Zealand Poland Portugal Romania Russian Federation — — — — — — — — — — — — — — — — — — —	SI SK SN SZ TD TG TJ TM TR TT UA UG US US VN YU	Slovenia Slovakia Senegal Swaziland Chad Togo Tajikistan Turkey Trinidad and Tobago Ukraine Uganda United States of America Uzbekistan Yuet Nam Yugoslavia Zimbabwe